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*Supplement of*

**Submicron aerosols at thirteen diversified sites in China: size distribution, new particle formation and corresponding contribution to cloud condensation nuclei production**

**J. F. Peng et al.**

*Correspondence to:* M. Hu ([minhu@pku.edu.cn](mailto:minhu@pku.edu.cn))

## Supplementary materials

Table 1. Summary of contribution of NPF events to potential CCN at different time of day between 14:00 to 17:00 in all measurements

Type	Sites	Season	$S_c=0.5$ ( $D_p=50$ )				$S_c=0.2$ ( $D_p=90$ )			
			14:00-15:00	15:00-16:00	16:00-17:00	Ave.	14:00-15:00	15:00-16:00	16:00-17:00	Ave.
<b>Urban</b>	<b>GZ<sub>u</sub></b>	Autumn	27%	31%	35%	<b>31%</b>	6%	9%	12%	<b>9%</b>
	<b>SH<sub>u</sub></b>	Spring	37%	30%	31%	<b>33%</b>	7%	5%	6%	<b>6%</b>
	<b>WX<sub>u_win</sub></b>	Winter	0%	0%	0%	<b>0%</b>	0%	0%	0%	<b>0%</b>
	<b>WX<sub>u_sum</sub></b>	Summer	76%	63%	60%	<b>66%</b>	31%	23%	24%	<b>26%</b>
	<b>JH<sub>u</sub></b>	Autumn	0%	0%	0%	<b>0%</b>	0%	0%	0%	<b>0%</b>
<b>Regional</b>	<b>HS<sub>r</sub></b>	Autumn	0%	0%	0%	<b>0%</b>	0%	0%	0%	<b>0%</b>
	<b>KP<sub>r</sub></b>	Autumn	22%	33%	34%	<b>30%</b>	2%	7%	8%	<b>6%</b>
	<b>JX<sub>r_sum</sub></b>	Summer	61%	55%	56%	<b>57%</b>	25%	21%	22%	<b>23%</b>
	<b>JX<sub>r_win</sub></b>	Winter	0%	0%	0%	<b>0%</b>	0%	0%	0%	<b>0%</b>
	<b>YF<sub>r</sub></b>	Summer	25%	30%	28%	<b>28%</b>	2%	5%	7%	<b>5%</b>
<b>Coastal</b>	<b>BG</b>	Autumn	5%	9%	11%	<b>8%</b>	<1%	<1%	1%	<b>&lt;1%</b>
	<b>WL</b>	Autumn	3%	6%	6%	<b>5%</b>	<1%	<1%	1%	<b>&lt;1%</b>
	<b>CD</b>	Spring	5%	11%	14%	<b>10%</b>	<1%	<1%	1%	<b>&lt;1%</b>
<b>Cruise</b>	<b>ES</b>	Spring	<1%	<1%	<1%	<b>&lt;1%</b>	<1%	<1%	<1%	<b>&lt;1%</b>

“0%” represent that there is no NPF event found in the measurement; “<1%” represent that there are NPF events found in the measurement, but the relative contributions of these NPF events to the total CCN concentration are smaller than 1%.

